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Substitute for Form 1449/A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 1 of 27

Complete if Known

Application No.	10/617,150
Filing Date	07/10/2003
First Named Inventor	D'Amato
Group Art Unit	Unassigned
Examiner Name	Unassigned
Attorney Docket Number	05213-0924 (43170-287649)

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number ⁴	Kind Code ² (if known)			
(S)	1	2,584,271		Huffman	02/05/1952	
	2	2,846,453		Hohn	08/05/1958	
	3	3,166,577		Ringold et al.	01/19/1965	
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(S)	20	5,135,919		Folkman et al.	08/04/1992	
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	23	6,528,676	BI	D'Amato et al.	03/04/2003	

* references not initialed were already cited by the examiner on a PTO-892 attached to paper No. 3.

Examiner Signature	<i>Sukal Witherspoon</i>	Date Considered	6/30/04
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Group Art Unit	Unassigned
Examiner Name	Unassigned
Attorney Docket Number	05213-0924 (43170-287649)

Sheet 2 of 27

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T*
		Office ²	Number ³	Kind Code ⁴ (if known)				
SW	24	DE	1907330		Sandoz Ltd. (Identifier only)	10/23/1969		
	25	DE	2 004 516		VEB Jenapharm	09/10/1970		No
	26	DE	27 57 157		Schering AG	12/19/1977		
	27	DE	3625315		Schering A.-G (Identifier only)	01/28/1988		
	28	EPO	0166937	A2	Abbott Laboratories	08/01/1986		
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	35	JP	63090763	A	Research Development Corp. of Japan (Abstract only)	04/21/1988		
SW	36	JP	63-119500		Dai Ichi Seiyaku Co Ltd.	05/24/1988		No

Examiner Signature	<i>Stefan W. Ludwig</i>	Date Considered	6/30/04
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<i>SW</i>	37	JP	41 000100	A	Dainippon Pharmaceutical Co., Ltd. (abstract only)	01/07/1966		
	38	SU	1240038	A1	A MED ONCOLOGY CENTRE (abstract only)	10/27/1996		
	39	WO	87/02367	A3	The Upjohn Company	04/23/1987		
	40	WO	88/08002	A1	The Upjohn Company	10/20/1988		
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	42	WO	93/03729	A1	Research Corporation Technologies, Inc.	03/04/1993		
	43	WO	93/19746	A1	ORION-YH-TYMA OY	10/14/1993		
<i>SW</i>	44	WO	95/04535	A1	The Children's Medical Center Corporation	02/16/1995		

Examiner Signature	<i>Sital Wadhwa</i>	Date Considered	6/20/04
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CS	45	Author: Title: Lilopristone/(1-[4-(Dimethylamino)phenyl]-17-hydroxy-17-(3-hydroxy-1-propenyl)estra-4,9-diene-3-one; AK 98734 Publ: Dictionary of Drugs (1990), Dict. of Steroids (1991), Dict. of Org. Compds (6th Ed) (1996), Dict. of Pharm. Agents (1997) Vol/Iss: Pages: Date: 1990			
	46	Author: Title: (paragraphs 583-584) Publ: The Merck Index 11th Edition Vol/Iss: Pages: 88 Date: 1989			
	47	Author: Title: Publ: Research Plus Catalog Vol/Iss: Pages: 50-58 Date: 1993			
	48	Author: Title: Registry Number: 56933-77-8 Publ: Chemical Abstracts Vol/Iss: Pages: Date:			
	49	Author: Title: Registry Number: 56933-78-9 Publ: Chemical Abstracts Vol/Iss: Pages: Date:			
	50	Author: Title: Registry Number: 57380-15-1 Publ: Chemical Abstracts Vol/Iss: Pages: Date:			
CS	51	Author: Title: Registry Number: 71782-94-0 Publ: Chemical Abstracts Vol/Iss: Pages: Date:			

Examiner Signature	<i>Sikar W. Winters</i>	Date Considered	6/30/04
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SW	52	Author: Title: Registry Number: 71782-95-1 Publ: <u>Chemical Abstracts</u> Vol/Iss: Pages: Date:				
	53	Author: Title: Registry Number: 101277-11-6 Publ: <u>Chemical Abstracts</u> Vol/Iss: Pages: Date:				
	54	Author: ABOULWafa et al. Title: Synthesis and evaluation for uterotrophic and antiimplantation activities of 2-substituted estradiol derivatives Publ: <u>Steroids</u> Vol/Iss: 57 Pages: 199-204 Date: 04/1992				
	55	Author: ADAMS, E.F. et al. Title: Steroidal regulation of oestradiol-17B dehydrogenase activity of the human breast cancer cell line MCF-7 (Chemical Abstracts Doc. No. 109:32325, 1988) Publ: <u>Journal of Endocrinology</u> Vol/Iss: 118 (1) Pages: 149-154 Date: 07/1988				
	56	Author: AIZU-YOKOTA et al. Title: Natural Estrogens Induce Modulation of Microtubules in Chinese Hamster V79 Cells in Culture Publ: <u>Cancer Research</u> Vol/Iss: 55 Pages: 1863-1868 Date: 05/01/95				
	57	Author: ALGIRE, G.H. et al. Title: Vascular reactions of normal and malignant tumors in vivo. I. Vascular reactions of mice to wounds and to normal and neoplastic transplants Publ: <u>Journal of the National Cancer Institute</u> Vol/Iss: 6 Pages: 73-85 Date: 08/1945				
SW	58	Author: ALIEV et al. Title: 54929q Synthesis of cycloalkyl derivatives of dihydric phenols and their ethers Publ: <u>Chemical Abstracts</u> Vol/Iss: 72 Pages: 370 Date: 1970				

Examiner Signature	<i>Seth Wetherpoon</i>	Date Considered	6/30/04
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SD	59	Author: AUDIER et al. Title: Orientation de la fragmentation en spectrometrie de masse par introduction de groupements fonctionnels. VII. - Ethelehenecetals de ceto-2 steroïdes Publ: Bulletin De La Societe Chimique De France Vol/Iss: 10 Pages: 3088-3090 Date: 1965			
	60	Author: BANIK et al. Title: Orally Active Long-Acting Estrogen (AY-20,121) (3-(2-propynyloxy)-estra-1,3,5,(10)-triene-17. beta.-ol trimethylacetate) (Identifier only) Publ: Steroids Vol/Iss: 16 (3) Pages: 289-296 Date: 1970			
	61	Author: BARDON et al. Title: Steroid Receptor-Mediated Cytotoxicity of an Antiestrogen and an Antiprogesterin in Breast Cancer Cells (Abstract only) Publ: Cancer Research Vol/Iss: 47 (5) Pages: 1441-1448 Date: 03/01/87			
	62	Author: BARNES et al. Title: Tumor Necrosis Factor Production in Patients with Leprosy Publ: Infection and Immunity Vol/Iss: 60 (4) Pages: 1441-1446 Date: 04/1992			
	63	Author: BHAT et al. Title: Estradiol-induced Mitotic Inhibition in the Bursa of Fabricius of Male Domestic Duckling (Chemical Abstracts Doc. No: 98:31837, 1982) Publ: Mikroskopie Vol/Iss: 39 Pages: 113-117 Date: 05/1982			
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SD	65	Author: BLICKENSTAFF et al. Title: Estrogen-Catharanthus (Vinca) Alkaloid Conjugates (Chemical Abstracts Doc. No: 94:114277, 1981) Publ: Cytotoxic Estrogens in Hormone Receptive Tumors Vol/Iss: Pages: 89-105 Date: 1980			

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS						
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66	Author: BLICKENSTAFF et al. Title: Synthesis of Some Analogs of Estradiol Publ: Steroids Vol/Iss: 46 (4,5) Pages: 889-902 Date: 10/1985					
67	Author: BOYCE et al. Title: Some Preliminary Synthetical Studies with 5,6,7,8-Tetra-hydro-8-methylindane -1,5-dione Publ: Unknown Vol/Iss: Pages: 4547-4553 Date: 1960					
68	Author: BOYE et al. Title: 185. Deaminocolchinyll Methyl Ether: Synthesis from 2,3,4,4'-Tetramethoxybiphenyl- 2-carbaldehyde. Comparison of Antitubulin Effects of Deaminocolchinyll Methyl Ether and Dehydro Analogs Publ: Helvetica Chimica Acta Vol/Iss: 72 Pages: 1690-1696 Date: 1989					
69	Author: BRANDI et al. Title: Bone endothelial cells as estrogen targets (Abstract only) Publ: Calcif. Tissue Int. Vol/Iss: 53 (5) Pages: 312-317 Date: 1993					
70	Author: BREM, H. et al. Title: Interstitial chemotherapy with drug polymer implants for the treatment of recurrent gliomas Publ: Journal of Neurosurgery Vol/Iss: 74 Pages: 441-446 Date: 03/01/91					
71	Author: BROCKWAY, W. J. et al. Title: Measurement of the Binding of Antifibrinolytic Amino Acids to Various Plasminogen Publ: Archives of Biochemistry and Biophysics Vol/Iss: 151 Pages: 194-199 Date: 04/18/72					
72	Author: BROSENS et al. Title: Comparative Study of the Estrogenic Effect of Ethinylestradiol and Mestranol on the Endometrium Publ: Laboratory for Gynecological Physiopathology Vol/Iss: 14 (6) Pages: 679-685 Date: 12/01/76					

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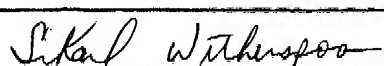
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	73	Author: BROWNE Title: Expression of Recombinant Human Plasminogen and Aglycoplasminogen in HeLa cells Publ: <u>Fibinolysis</u> Vol/Iss: 5 Pages: 257-260 Date: 04/13/91			
	74	Author: CAMBIE et al. Title: Aromatic Steroids. Part II. Chromium Trioxide Oxidation of Some Oestra-1,3-5(10)-trienes Publ: <u>Journal of the Chemical Society</u> Vol/Iss: 9 Pages: 1234-1240 Date: 1969			
	75	Author: CAMBIE et al. Title: Aromatic Steroids. Part I. Oxidation Products of 3-Methoxyestra-1,3,5(10)-triene- 17β-yl Acetate Publ: <u>J. Chem. Soc.</u> Vol/Iss: Pages: 2603-2608 Date: 1968			
	76	Author: CASTAGNETTA, L. et al. Title: Simple Approach to Measure Metabolic Pathways of Steroids in Living Cells Publ: <u>Journal of Chromatography</u> Vol/Iss: 572 Pages: 25-39 Date: 12/06/91			
	77	Author: CHASSEROT-GOLAZ et al. Title: Biotransformation of 17.β-hydroxy-11.β.-(4-dimethylaminophenyl) 17.α.1-propynyl-estra-4,9-diene-3-one (RU486) in Rat Hepatoma Variants (Identifier only) Publ: <u>Biochemical Pharmacology</u> Vol/Iss: 46 (11) Pages: 2100-2103 Date: 1993			
	78	Author: CHEN et al. Title: A New Synthetic Route to 2- and 4-Methoxyestradiols by Nucleophilic Substitution Publ: <u>Steroids</u> Vol/Iss: 47 (1) Pages: 63-66 Date: 01/1986			
	79	Author: CHEN et al. Title: Synthesis of 11.β.-(4-dimethylaminophenyl)-17.β-hydroxy-17.α.-(1-propynyl) estra-4, 9-dien-3-one (RU486) (Identifier only) Publ: <u>Nanjing Yaocueyuan Xuebao</u> Vol/Iss: 17 (4) Pages: 282-285 Date: 1986			

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	80	Author: COHEN et al. Title: Novel Total Synthesis of (+)-Estrone 3-Methyl Ether, (+)-13 β -Ethyl-3-methoxygona-1,3,5(10)-trien-17-one, and (+)-Equilenin 3-Methyl Ether Publ: The Journal of Organic Chemistry Vol/Iss: 40 (6) Pages: 681-685 Date: 03/21/75				
	81	Author: COLLINS et al. Title: The Structure and Function of Estrogens. XI. Synthesis of (+/-)-7(8-11 α)-abeo-Estradiol and its 9,11-Didehydro Derivative Publ: Aust. Journal of Chemistry Vol/Iss: 45 (1) Pages: 71-97 Date: 1992				
	82	Author: COREY et al. Title: Applications of N,N-Dimethylhydrazones to Synthesis. Use in Efficient, Positionally and Stereochemically Selective C-C Bond Formation; Oxidative Hydrolysis to Carbonyl Compounds Publ: Tetrahedron Letters Vol/Iss: 1 Pages: 3-6 Date: 1976				
	83	Author: COREY et al. Title: Facile Conversion of N,N-Dimethylhydrazones to Carbonyl Compounds by Cupric Ion-Catalyzed Hydrolysis Publ: Tetrahedron Letters Vol/Iss: 41 Pages: 36678-3668 Date: 1976				
	84	Author: CRABBE, P. Title: Cotton effect of the styrene chromophore (Abstract only) Publ: Chem. Ind. Vol/Iss: 27 Pages: 917-918 Date: 1969				
	85	Author: CRUM, R. et al. Title: A New Class of Steroids Inhibits Angiogenesis in the Presence of Heparin or a Heparin Fragment Publ: Science Vol/Iss: 230 Pages: 1375-1378 Date: 12/20/85				
	86	Author: DURANI et al. Title: Seco-Oestradiols and Some Non-Steroidial Oestrogens: Structural Correlates of Oestrogenic Action Publ: Journal of Steroid Biochemistry Vol/Iss: 11 Pages: 67-77 Date: 1979				

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SW	87	Author: DVIR et al. Title: Thin-layer Chromatography of DANSYL-oestrogens Publ: Journal of Chromatography Vol/Iss: 52 Pages: 505-506 Date: 11/04/70			
	88	Author: EDER et al. Title: Synthese von Oestradiol (in German - No translation available) Publ: Chem. Ber. Vol/Iss: 109 Pages: 2948-2953 Date: 1976			
	89	Author: EMONS et al. Title: Modulation der hypophysären Sekretion von luteinisierendem Hormon (LH) durch Oestrogene Publ: FOCUS MHL Vol/Iss: 3 Pages: 221-228 Date: 1986			
	90	Author: EPE et al. Title: Microtubular Proteins as Cellular Targets for Carcinogenic Estrogens and Other Carcinogens Publ: Mechanisms of Chromosome Distribution and Aneuploidy Vol/Iss: Pages: 345-351 Date: 1989			
	91	Author: EVANS et al. Title: A Convergent Total Synthesis of +/- Colchicine and +/- Desacetamidocolchicine Publ: Journal of the American Chemical Society Vol/Iss: 103 Pages: 5813-5821 Date: 09/23/81			
	92	Author: FANCHENKO et al. Title: Characteristics of the guinea pig uterus estrogen receptor system (Abstract only) Publ: Byull. Eksp. Biol. Med. Vol/Iss: 85 (4) Pages: 467-470 Date: 1978			
SW	93	Author: FETIZON et al. Title: Synthesis of 2-keto steroids (Abstract only) Publ: Bull. Soc. Chim. FR. Vol/Iss: 8 Pages: 3301-3306 Date: 1968			

Examiner Signature	<i>Shel Wetherston</i>	Date Considered	6/30/04
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				First Named Inventor	D'Amato
				Group Art Unit	Unassigned
				Examiner Name	Unassigned
Sheet	11	of	27	Attorney Docket Number	05213-0924 (43170-287649)
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SW	94	Author: FEVIG et al. Title: A Short, Stereoselective Route to 16 α -(Substituted-alkyl)estradiol Derivatives Publ: Journal of Organic Chemistry Vol/Iss: 52 Pages: 247-251 Date: 1987			
	95	Author: FIELD et al. Title: Effect of Thalidomide on the Graft versus Host Reaction Publ: Nature Vol/Iss: 211 (5055) Pages: 1308-1310 Date: 09/17/66			
	96	Author: FIESER et al. Title: N-Methylformanilide Publ: Organic Synthesis Collective Volume 3 Vol/Iss: 3 Pages: 590-591 Date: 1955			
	97	Author: FITZGERALD Title: Molecular Features of Colchicine Associated with Antimitotic Activity and Inhibition of Tubulin Polymerization Publ: Biochemical Pharmacology Vol/Iss: 25 (12) Pages: 1383-1387 Date: 06/15/76			
	98	Author: FLOHE et al. Title: Studies on the Hypothetical Relationship of Thalidomide-Induced Embryopathy and Collagen Biosynthesis Publ: Arzneimittel/Forschung (Germany West) Vol/Iss: 31 (2) Pages: 315-320 Date: 01/01/81			
	99	Author: FOLKMAN et al. Title: Angiogenesis Inhibition and Tumor Regression Caused by Heparin or a Heparin Fragment in the Presence of Cortisone Publ: Science Vol/Iss: 221 Pages: 719-725 Date: 08/19/83			
SW	100	Author: FOLKMAN, J. Title: Tumor Angiogenesis: Therapeutic Implications Publ: New England Journal of Medicine Vol/Iss: 285 (21) Pages: 1182-1186 Date: 11/18/71			

Examiner Signature	<i>Libel Witherspoon</i>	Date Considered	6/30/04
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	101	Author: FOLKMAN, J. et al. Title: Induction of Angiogenesis During the Transition from Hyperplasia to Neoplasia Publ: Nature Vol/Iss: 339 Pages: 58-61 Date: 05/04/89			
	102	Author: FOLKMAN, J. et al. Title: Tumor Behavior in Isolated Perfused Organs in vitro Growth and Metastases of Biopsy Material in Rabbit Thyroid and Canine Intestinal Segment Publ: Annals of Surgery Vol/Iss: 164(3) Pages: 491-502 Date: 09/01/66			
	103	Author: GANDHI et al. Title: Mannich Reaction of Estrone Publ: Journal of Indian Chem. Soc. Vol/Iss: 39 Pages: 306-308 Date: 1962			
	104	Author: GASLINI et al. Title: Reaction of Eugenol with Synthesis Gas. Synthesis of 5,6,7,8-Tetrahydro-3-methoxy-2-naphthol Publ: Journal of Organic Chemistry Vol/Iss: 29 (5) Pages: 1177-1180 Date: 05/1964			
	105	Author: GETAHUN et al. Title: Synthesis of Alkoxy-Substituted Diaryl Compounds and Correlation of Ring Separation with Inhibition of Tubulin Polymerization: Differential Enhancement of Inhibitory Effects Under Suboptimal Polymerization Reaction Conditions Publ: Journal of Medicinal Chemistry Vol/Iss: 35 (6) Pages: 1058-1067 Date: 03/20/92			
	106	Author: GIMBRONE, M.A. et al. Title: Tumor Growth and Neovascularization: An Experimental Model Using the Rabbit Cornea Publ: Journal of the National Cancer Institute Vol/Iss: 52(2) Pages: 413-427 Date: 02/74			
	107	Author: GIMBRONE, M.A. et al. Title: Tumor dormancy <i>in vivo</i> by Prevention of Neovascularization Publ: Journal of Experimental Medicine Vol/Iss: 136 Pages: 261-276 Date: 1972			

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Sw	108	Author: GONZALEZ et al. Title: Synthesis and Pharmacological Evaluation of 8 α Estradiol Derivatives Publ: Steroids Vol/Iss: 40 (2) Pages: 171-187 Date: 9/1982			
	109	Author: GROSS et al. Title: Inhibition of Tumor Growth, Vascularization, and Collagenolysis in the Rabbit Cornea by Medroxyprogesterone Publ: Proceedings of the National Academy of Science USA Vol/Iss: 78 (2) Pages: 1176-1180 Date: 02/1981			
	110	Author: GROSS, J.L. et al. Title: Modulation of Solid Tumor Growth in vivo by bFGF (Abstract only) Publ: Proceedings of the American Association of Cancer Research Vol/Iss: 31 Pages: 79 Date: 03/90			
	111	Author: GUNZLER, V. Title: Thalidomide-A Therapy for the Immunological Consequences of HIV Infection? Publ: Medical Hypothesis Vol/Iss: 30 (2) Pages: 105-109 Date: 10/89			
	112	Author: GUPTA et al. Title: Antifertility Agents. XIV. Secosteroids. VII. Synthesis of 2 α and 2 β , 6 β -dimethyl- 3 β -(p-hydroxyphenyl)-trans-bicyclo[4.3.0]nonan-7-ones and some related compounds (Abstract only) Publ: Indian Journal of Chemistry Vol/Iss: 13 (7) Pages: 759-760 Date: 1975			
	113	Author: GUPTA et al. Title: Studies in Antifertility Agents. Part XVIII. 2 α 6 β -Diethyl-3 β -(p-hydroxyphenyl)-trans-bicyclo[4.3.0]nonan-7 β -ol and 6 β -methyl-3 β -(p-hydroxyphenyl)-2 α -propyl- trans-bicyclo[4.3.0]nonan-7 β -ol (Abstract only) Publ: Indian Journal of Chemistry Vol/Iss: 19B (10) Pages: 886-890 Date: 1980			
Sw	114	Author: GUTIERREZ-RODRIGUEZ et al. Title: Treatment of Refractory Rheumatoid Arthritis - The Thalidomide Experience Publ: The Journal of Rheumatology Vol/Iss: 16 (2) Pages: 158-163 Date: 02/89			

Examiner Signature	<i>Sikar W. Thompson</i>	Date Considered	6/30/04
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				Group Art Unit	Unassigned
Examiner Name	Unassigned				
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SW	115	Author: GUTIERREZ-RODRIGUEZ, O. Title: Thalidomide - A Promising New Treatment for Rheumatoid Arthritis Publ: Arthritis and Rheumatism Vol/Iss: 27 (10) Pages: 1118-1121 Date: 10/84			
	116	Author: HAHNEL et al. Title: The Specificity of the Estrogen Receptor of Human Uterus Publ: Journal of Steroid Biochemistry Vol/Iss: 4 Pages: 21-31 Date: 1973			
	117	Author: HANDLEY et al. Title: Chronic bullous disease of childhood and ulcerative colitis Publ: British Journal of Dermatology Vol/Iss: 127 (40) Pages: 67-68 Date: 07/01/92			
	118	Author: HARTLEY-ASP et al. Title: Diethylstilbestrol Induces Metaphase Arrest and Inhibits Microtubule Assembly Publ: Mutation Research Vol/Iss: 143 (4) Pages: 231-235 Date: 08/1985			
	119	Author: HENEY et al. Title: Thalidomide treatment for chronic graft-versus-host disease Publ: British Journal of Haematology Vol/Iss: 78 (1) Pages: 23-27 Date: 05/91			
	120	Author: HOLKER et al. Title: The Reactions of Estrogens with Benzeneseleninic Anhydride and Hexamethyldisilazane Publ: J. Chem. Soc. Perkin Trans. Vol/Iss: 1 Pages: 1915-1918 Date: 1982			
SW	121	Author: HORI, A. et al. Title: Suppression of Solid Tumor Growth by Immunoneutralizing Monoclonal Antibody Against Human Basic Fibroblasts Growth Factor Publ: Cancer Research Vol/Iss: 51 Pages: 6180-6184 Date: 11/15/91			

Examiner Signature	<i>Subal W. Thompson</i>	Date Considered	6/30/04
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Examiner Name	Unassigned				
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	122	Author: HUBER et al. Title: Tubulin Binding of Conformationally Restricted Bis-Aryl Compounds Publ: Bioorganic & Medicinal Chemistry Letters Vol/Iss: 1 (5) Pages: 243-246 Date: 1991			
	123	Author: IMAMURA et al. Title: Method for Manufacture of Dihydric Phenols (Abstract only) Publ: USPATFULL 76:20259 US 3,950,437 Vol/Iss: Pages: Date: 04/13/1976			
	124	Author: INGBER, D. et al. Title: Synthetic analogues of fumagillin that inhibit angiogenesis and suppress tumor growth Publ: Nature Vol/Iss: 348 Pages: 555-557 Date: 12/06/90			
	125	Author: IRIARTE et al. Title: Steroids (XCIV). Synthesis of 2-methyl and 1,2-dimethyl estrogens (Abstract only) Publ: Tetrahedron Vol/Iss: 3 Pages: 28-36 Date: 1958			
	126	Author: JHINGRAN et al. Title: Studies in Antifertility Agents - Part XLI: Secosteroids-x: Syntheses of Various Stereoisomers of (+)-2,6β-diethyl-7α-ethynyl-3-(p-hydroxyphenyl)-trans-bicyclo [4.3.0]nonan-7β-ol. Publ: Steroids Vol/Iss: 42 (6) Pages: 627-634 Date: 1983			
	127	Author: KABARITY et al. Title: Further Investigations on the cytological effects of some contraceptives Publ: Mutation Research Vol/Iss: 135 Pages: 181-188 Date: 1984			
	128	Author: KARWAT Title: Separation and Recovery of Hydrogen Sulfide from Hydrocarbon Mixture Publ: Caplus DE 1103310 Vol/Iss: Pages: Date: 09/02/1959			

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SW	129	Author: KELLY et al. Title: The Stimulation of Prostaglandin Production by Two Antiprogesterone Steroids in Human Endometrial Cells (Abstract only) Publ: Journal of Clinical Endocrinology Metabolism Vol/Iss: 62 (6) Pages: 1116-1123 Date: 06/1986			
	130	Author: KIM, K.J. et al. Title: Inhibition of Vascular Endothelial Growth Factor-induced Angiogenesis Suppresses Tumor Growth In Vivo Publ: Nature Vol/Iss: 362 Pages: 841-844 Date: 04/29/93			
	131	Author: KNIGHTON, D. et al. Title: Avascular and Vascular Phases of Tumour Growth in the Chick Embryo Publ: British Journal of Cancer Vol/Iss: 35 Pages: 347-356 Date: 1977			
	132	Author: KOLE et al. Title: Studies in Antifertility Agents. 11. Secosteroids. 5. Synthesis of 9,11-Secoestradiol Publ: Journal of Medicinal Chemistry Vol/Iss: 18 (7) Pages: 765-766 Date: 1975			
	133	Author: KOVACS et al. Title: Steroids. XXIII. Synthesis of 2- and 4-hydroxy and 2,4-dihydroxy derivatives of estrone and estradiol (Abstract only) Publ: Acta Phys. Chem. Vol/Iss: 19 (3) Pages: 287-290 Date: 1973			
	134	Author: LEWIS, Richard J. Title: Publ: Hawley's Condensed Chemical Dictionary Vol/Iss: Pages: 577 Date: 01/1993			
SW	135	Author: LEWIS, Richard J. Title: Publ: Hawley's Condensed Chemical Dictionary Vol/Iss: Pages: 128-129 Date: 01/1993			

Examiner Signature	<i>Stuart Wilkerson</i>	Date Considered	6/30/04
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	136	Author: LI, J., et al. Title: (DN 103:65176) Catechol Formation of Fluoro- and Bromo-substituted Estradiols by Hamster Liver Microsomes. Evidence for Dehalogenation. (Abstract only) Publ: CAPLUS; Molecular Pharmacology Vol/Iss: 27 (5) Pages: 559-565 Date: 1985			
	137	Author: LICHTENAUER et al. Title: Zur Behandlung des Prostata-Karzinoms Publ: Deutsches medizinisches Journal Vol/Iss: 23 Pages: 248-249 Date: 01/1972			
	138	Author: LIEN, W. et al. Title: The blood supply of experimental liver metastases. II. A Microcirculatory study of the normal and tumor vessels of the liver with the use of perfused silicone rubber Publ: Surgery Vol/Iss: 68 (2) Pages: 334-340 Date: 08/1970			
	139	Author: LIMANTSEV et al. Title: Effect of some estrogen structural analogs on the development of the mouse embryo (Abstract only) Publ: Akush Jinekol. Vol/Iss: 6 Pages: 55-56 Date: 1982			
	140	Author: LIN et al. Title: Interactions of Tubulin with Potent Natural and Synthetic Analogs of the Antimitotic Agent Combretastatin: A Structure-Activity Study Publ: Molecular Pharmacology Vol/Iss: 34 (2) Pages: 200-208 Date: 08/1988			
	141	Author: LINCOLN et al. Title: Conformation of Thiocolchicine and Two B-Ring-Modified Analogues Bound to Tubulin Studied with Optical Spectroscopy Publ: Biochemistry Vol/Iss: 30 (5) Pages: 1179-1187 Date: 02/05/91			
	142	Author: LIU et al. Title: Total Synthesis of (+)- $\Delta^9(12)$ Capnellene Publ: Tetrahedron Letters Vol/Iss: 26 (40) Pages: 4847-4850 Date: 1985			

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S	143	Author: LOOZEN et al. Title: An approach to the synthesis of 7.beta.-amino estrogens (Abstract only) Publ: Recl.: J.R. Neth.Chem. Soc. Vol/Iss: 102 (10) Pages: 433-437 Date: 1983			
	144	Author: LOTTERING et al. Title: Effects of the 17β-Estradiol Metabolites on Cell Cycle Events in MCF-7 Cells (Chemical Abstracts Doc. No: 117:245769, 1992) Publ: Cancer Research Vol/Iss: 52 Pages: 5926-5932 Date: 11/01/92			
	145	Author: LUO et al. Title: Effect of Components of Crowth Ether Copper(I)Iodide Mixed Catalyst on Nucleophilic Substitution of Bromoestrogen (Abstract No. 195225) Publ: Chemical Abstracts Vol/Iss: 111 (21) Pages: 818, Column 1 Date: 11/20/89			
	146	Author: MARO et al. Title: Mechanism of Polar Body Formation in the Mouse Oocyte: An Interaction Between the Chromosomes, the Cytoskeleton and the Plasma Membrane Publ: Journal of Embryology and Experimental Morphology Vol/Iss: 92 Pages: 11-32 Date: 1986			
	147	Author: MAYOL et al. Title: Ethynylestradiol-Induced Cell Proliferation in Rat Liver Involvement of Specific Populations of Hepatocytes (Abstract only) Publ: Carcinogenesis Vol/Iss: 13 (12) Pages: 2381-2388 Date: 1992			
	148	Author: MICHEL et al. Title: Inhibition of synaptosomal high-affinity uptake of dopamine and serotonin by estrogen agonists and antagonists (Abstract only) Publ: Biochem. Pharmacol. Vol/Iss: 36 (19) Pages: 3175-3180 Date: 1987			
S	149	Author: MORGAN et al. Title: Calcium and Oestrogen Interactions upon the Rat Thymic Lymphocyte Plasma Membrane (Chemical Abstracts Doc. No: 85:172052, 1976) Publ: Biochemical and Biophysical Research Communications Vol/Iss: 72 (2) Pages: 663-672 Date: 09/20/76			

Examiner Signature	<i>S. Witherspoon</i>	Date Considered	7/6/04
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	150	Author: MORISAKI et al. Title: Steroids. LI. Aromatization reaction of the cross-conjugated dienone system by Zinc 9. (Abstract only) Publ: Chem. Pharm. Bull. Vol/Iss: 14 (8) Pages: 866-872 Date: 1966				
	151	Author: NAAFS et al. Title: Thalidomide Therapy An Open Trial Publ: International Journal of Dermatology Vol/Iss: 24 (2) Pages: 131-134 Date: 03/1985				
	152	Author: NAKAMURA et al. Title: Studies on the Total Synthesis of dColchicine. I. Synthesis of 3-Hydroxy-9, 10, 11-trimethoxy-1,2,3,4,6,7-hexahydro-5H-dibenzo[a,c] cycloheptatrien-5-one Publ: Chemical and Pharmaceutical Bulletin Vol/Iss: 10 Pages: 281-290 Date: 1982				
	153	Author: NAMBARA et al. Title: Studies on Steroid Conjugates. III. New Synthesis of 2-Methoxycyestrogens Publ: Chem. Pharm. Bulletin Vol/Iss: 18 (3) Pages: 474-480 Date: 03/1970				
	154	Author: NAMBARA et al. Title: Microbial transformation products derived from steroids. I. Synthesis of 1,2- and 3-dimethoxy-4-methylestratrienes (Abstract only) Publ: Chem. Pharm. Bull. Vol/Iss: 20 (2) Pages: 336-342 Date: 1972				
	155	Author: NAMBARA et al. Title: Synthesis of 16 β -Oxygenated Catechol Estrogen Methyl Ethers, New and Potential Metabolites Publ: Chemical & Pharmaceutical Bulletin Vol/Iss: 23 (7) Pages: 1613-1616 Date: 07/1975				
	156	Author: NAMBARA, T., et al. Title: DN 82:43650; Analytical Chemical Studies on Steroids. LXXIII. Synthesis of Epimeric 2-Hydroxy-16-Chloestrong Monomethyl Ethers (Abstract only) Publ: HCAPLUS-Chemical and Pharmaceutical Bulletin Vol/Iss: 22 (10) Pages: 2455-2457 Date: 1974				

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				Filing Date	07/10/2003	
				First Named Inventor	D'Amato	
				Group Art Unit	Unassigned	
Examiner Name	Unassigned					
Sheet	20	of	27	Attorney Docket Number	05213-0924 (43170-287649)	
OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS						
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	157	Author: NEWKOME et al. Title: Synthesis of Simple Hydrazones of Carbonyl Compounds by an Exchange Reaction Publ: Journal of Organic Chemistry Vol/Iss: 31 Pages: 677-681 Date: 03/1966				
	158	Author: NGUYEN, M. et al. Title: Elevated Levels of the Angiogenic Peptide Basic Fibroblast Growth Factor in Urine of Bladder Cancer Patients Publ: Journal of the National Cancer Institute Vol/Iss: 85 (3) Pages: 241-242 Date: 02/03/93				
	159	Author: NUMAZAWA et al. Title: Efficient Synthesis of 2-Methoxy- and 4-Methoxy-Estrogens Publ: Journal of the Chemical Society Vol/Iss: Pages: 533-534 Date: 01/01/83				
	160	Author: NUMAZAWA et al. Title: Novel and Regiospecific Synthesis of 2-Amino Estrogens via Zincke Nitration Publ: Steroids Vol/Iss: 41 (5) Pages: 675-682 Date: 1983				
	161	Author: OCHS et al. Title: Effect of Tumor Promoting Contraceptive Steroids on Growth and Drug Metabolizing Enzymes in Rat Liver (Abstract only) Publ: Cancer Research Vol/Iss: 46 (3) Pages: 1224-1232 Date: 1986				
	162	Author: OPPOLZER et al. Title: 177. The Enantioselective Synthesis of (+)-Estradiol from 1,3-Dihydrobenzo[c] thiophene-2,2-dioxide by Successive Thermal SO ₂ -Extrusion and Cycloaddition Reactions Publ: Helvetica Chimica Acta Vol/Iss: 63 Pages: 1703-1705 Date: 1980				
	163	Author: PAULL et al. Title: Identification of Novel Antimitotic Agents Acting at the Tubulin Level by Computer-assisted Evaluation of Differential Cytotoxicity Data Publ: Cancer Research Vol/Iss: 52 (14) Pages: 3892-3900 Date: 07/15/92				

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SW	164	Author: PERT et al. Title: Preparations of 2,4-disubstituted estradiols (Abstract only) Publ: Australian Journal of Chemistry Vol/Iss: 42 (3) Pages: 421-432 Date: 1989			
	165	Author: PETERS et al. Title: 17-Desoxy Estrogen Analogues Publ: Journal of Medicinal Chemistry Vol/Iss: 32 (7) Pages: 1642-1652 Date: 1989			
	166	Author: PFEIFFER et al. Title: Are catechol estrogens obligatory mediators of estrogen action in the central nervous system? I. Characterization of pharmacological probes with different receptor binding affinities and catechol estrogen formation rates (Abstract only) Publ: Journal of Endocrinology Vol/Iss: 110 (3) Pages: 489-497 Date: 1986			
	167	Author: POLI et al. Title: Tumor Necrosis Factor: Functions in an Autocrine Manner in the Induction of Human Immunodeficiency Virus Expression Publ: Proceedings of the National Academy of Science USA Vol/Iss: 87 (2) Pages: 782-785 Date: 01/1990			
	168	Author: POWELL et al. Title: Investigation and Treatment of Orogenital Ulceration; studies on a Possible Mode of Action of Thalidomide Publ: British Journal of Dermatology Vol/Iss: 113 Supp. 28 Pages: 141-144 Date: 07/1985			
	169	Author: RAO et al. Title: Structural Specificity of Estrogens in the Induction of Mitotic Chromatid Non-Disjunction in Hela Cells Publ: Experimental Cell Research Vol/Iss: 48 Pages: 71-81 Date: 1967			
SW	170	Author: RAO et al. Title: A Novel, Two-Step Synthesis of 2-Methoxyestradiol Publ: Synthesis Vol/Iss: Pages: 168-169 Date: 03/01/77			

Examiner Signature	Stuart Witherspoon	Date Considered	7/7/04
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CS	171	Author: RAVINDRA, R. Title: Effect of Estradiol on the <i>in vitro</i> Assembly of Rat Brain Tubulin Publ: <u>Journal of Indian Institute of Science</u> Vol/Iss: 64 (3) Pages: 27-35 Date: 03/1983				
	172	Author: ROMANELLI et al. Title: Ethyl-p-Dimethylaminophenylacetate Publ: <u>Organic Synthesis</u> Vol/Iss: 5 Pages: 552 Date: 10/24/1973				
	173	Author: SAKAKIBARA et al. Title: Effects of Diethylstilbestrol and its Methyl Ethers on Aneuploidy Induction and Microtubule Distribution in Chinese Hamster V79 cells Publ: <u>Mutation Research</u> Vol/Iss: 263 (4) Pages: 269-276 Date: 08/1991				
	174	Author: SAKAKIBARA, KYOICHI Title: 2-Hydroxy-1,3,5(10)-estratriene derivatives (Abstract only) (Identifier: XP-002186126) Publ: <u>Chemical Abstracts</u> Vol/Iss: 60(1) Pages: Date: 01/06/64				
	175	Author: SATO et al. Title: Effect of Estradiol and Ethynylestradiol on Microtubule Distribution in Chinese Hamster V79 Cells Publ: <u>Chemical and Pharmaceutical Bulletin</u> Vol/Iss: 40 (1) Pages: 182-184 Date: 01/1992				
	176	Author: SATO et al. Title: Disruptive Effect of Diethylstilbestrol on Microtubules Publ: <u>Cann</u> Vol/Iss: 75 (12) Pages: 1046-1048 Date: 12/1984				
CS	177	Author: SAWADA et al. Title: Colchicine-Like Effect of Diethylstilbestrol (DES) on Mammalian Cells in Vitro Publ: <u>Mutation Research</u> Vol/Iss: 57 Pages: 175-182 Date: 05/1978				

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SW	178	Author: SEEGERs et al. Title: Cyclic-AMP and Cyclic-GMP Production in MCF-7 Cells Exposed to Estradiol-17 Beta, Catecholestrogens and Methoxy-Estrogens in MCF-7 Cells (Meeting Abstract only) Publ: Joint MCI-1st Symposium, Third 1st International Symposium, Biology and Therapy of Breast Cancer Vol/Iss: Pages: Date: 09/25/89			
	179	Author: SEEGERs, J.C. et al. Title: The Cytotoxic Effects of Estradiol-17 β Catecholestradiols and Methoxyestradiols on Dividing MCF-7 and HeLa Cells Publ: Journal of Steroid Biochemistry Vol/Iss: 32 (6) Pages: 797-809 Date: 06/1989			
	180	Author: SHARP et al. Title: Diethylstilboestrol: the Binding and Effects of Diethylstilboestrol upon the Polymerisation and Depolymerisation of Purified Microtubule Protein <i>in vitro</i> Publ: Carcinogenesis Vol/Iss: 6 (6) Pages: 865-871 Date: 06/1985			
	181	Author: SHISHKINA et al. Title: Synthesis and properties of condensed heterocyclic derivatives of estra-4, 9-dien-17 β , α -ol-3-one (Abstract only) Publ: Khim.-Farm. Zh. Vol/Iss: 8 (1) Pages: 7-11 Date: 1974			
	182	Author: SIDKY et al. Title: Inhibition of Angiogenesis by Interferons: Effects on Tumor- and Lymphocyte-induced Vascular Responses Publ: Cancer Research Vol/Iss: 47 Pages: 5155-5161 Date: 10/01/87			
	183	Author: SIRACUSA et al. Title: The Effect of Microtubule- and Microfilament-disrupting Drugs on Preimplantation Mouse Embryos (abstract Only) Publ: Journal of Embryology and Experimental Morphology Vol/Iss: 60 Pages: 71-82 Date: 12/1980			
SW	184	Author: SPICER et al. Title: Catecholestrogens Inhibit Proliferation and DNA Synthesis of Porcine Granulosa Cells in Vitro: Comparison with Estradiol, 5 α dihydrotestosterone, Gonadotropins and Catecholamines (Chemical Abstracts Doc. No: 111:50609, 1989) Publ: Molecular and Cellular Endocrinology Vol/Iss: 64 Pages: 119-126 Date: 1989			

Examiner Signature	<i>Stefan Winkler</i>	Date Considered	7/7/04
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	181	Author: SHISHKINA et al. Title: Synthesis and properties of condensed heterocyclic derivatives of estra-4, 9-dien-17. beta. -ol-3-one (Abstract only) Publ: Khim.-Farm. Zh. Vol/Iss: 8 (1) Pages: 7-11 Date: 1974				
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	183	Author: SIRACUSA et al. Title: The Effect of Microtubule- and Microfilament-disrupting Drugs on Preimplantation Mouse Embryos (abstract Only) Publ: Journal of Embryology and Experimental Morphology Vol/Iss: 60 Pages: 71-82 Date: 12/1980				
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	185	Author: SPYRIOUNIS et al. Title: Copper (II) complex of an estradiol derivative with potent antiinflammatory properties (Abstract only) Publ: Arch. Pharm. Vol/Iss: 324 (9) Pages: 533-536 Date: 1991			
	186	Author: SRIVASTAVA, A. et al. Title: The Prognostic Significance of Tumor Vascularity in Intermediate-Thickness (0.76-4.0 mm Thick) Skin Melanoma Publ: American Journal of Pathology Vol/Iss: 133 (2) Pages: 419-424 Date: 11/1988			
	187	Author: STARKOV et al. Title: Mono- and Dialkylolation of Guaiacol by Olefins on KU-2 Cation Exchanger (Abstract only) Publ: Zhurnal Prikladnoi Khimii Vol/Iss: 41 (3) Pages: 688-690 Date: 1968			
	188	Author: STERNLICHT et al. Title: Colchicine Inhibition of Microtubule Assembly via Copolymer Formation Publ: The Journal of Biological Chemistry Vol/Iss: 254 (20) Pages: 10540-10550 Date: 10/25/79			
	189	Author: SUN et al. Title: Antitumor Agents. 139. Synthesis and Biological Evaluation of Thiocolchicine Analogs 5,6-Dihydro -6(S)-(acyloxy)-and 5,6-Dihydro-6(S)-{(aroyloxy) methyl}-1,2,3- trimethoxy-9-(methylthio)-8H-cyclohept[naphthalen-8-ones as Novel Cytotoxic and Antimitotic Agents Publ: Journal of Medicinal Chemistry Vol/Iss: 36 (5) Pages: 544-551 Date: 03/05/93			
	190	Author: SUNAGAWA et al. Title: Synthesis of Colchicine; Synthesis of α Demethoxyoxydeoxy-hexahydrocolchicine Publ: Chemical & Pharmaceutical Bulletin Vol/Iss: 9 Pages: 81-83 Date: 1961			
	191	Author: TAYLOR, S. et al. Title: Protamine is an Inhibitor of Angiogenesis Publ: Nature Vol/Iss: 297 Pages: 307-312 Date: 05/27/82			

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Sw	192	Author: TERANISHI, M. et al. Title: Methylation of Catechol Estrogen with Diazomethane Publ: Chemical and Pharmaceutical Bulletin Vol/Iss: 31 (9) Pages: 3309-3314 Date: 09/1983			
	193	Author: TSUTSUI et al. Title: Comparison of Human Versus Syrian Hamster Cells in Culture for Induction of Mitotic Inhibition, Binucleation and Multinucleation, Following Treatment with Four Aneuploidogens Publ: Toxicology in Vitro Vol/Iss: 4 (1) Pages: 75-84 Date: 1990			
	194	Author: UTNE et al. Title: The Synthesis of 2- and 4-Fluoroestradiol Publ: Journal of Organic Chemistry Vol/Iss: 33 (6) Pages: 2469-2473 Date: 06/1968			
	195	Author: VAN GEERESTEIN et al. Title: Structure of 11. beta.-(4-(dimethylamino)phenyl)-17. beta.-hydroxy-17. alpha.-(2-propenyl) estro-4,9-dien-3-one (Identifier only) Publ: Acta Crystallogr., Sect. C: Cryst. Struct. Commun. Vol/Iss: C43 (2) Pages: 319-322 Date: 1987			
	196	Author: VAN TAMELEN et al. Title: The Synthesis of Colchicine Publ: Tetrahedron Vol/Iss: 14 (1/2) Pages: 8-34 Date: 09/1961			
	197	Author: VICENTE et al. Title: In Vitro Activity of Thalidomide Against Mycobacterium avium Complex Publ: Archives of Internal Medicine Vol/Iss: 153 (4) Pages: 534 Date: 02/22/93			
Sw	198	Author: WANG et al. Title: Photoaffinity Labeling of Human Placental Estradiol 17. beta.-dehydrogenase with 2- And 4-azidoestrone, 2- and 4-azidoestradiol (abstract Only) Publ: Shengwu Huaxue Zazhi Vol/Iss: 8 (6) Pages: 715-718 Date: 1992			

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SW	199	Author: WEIDNER, N. et al. Title: Tumor angiogenesis: A New Significant and Independent Prognostic Indicator in Early-Stage Breast Carcinoma Publ: Journal of the National Cancer Institute Vol/Iss: 84 Pages: 1875-1887 Date: 12/16/92			
	200	Author: WEIDNER, N. et al. Title: Tumor Angiogenesis Correlates with Metastasis in Invasive Prostate Carcinoma Publ: American Journal of Pathology Vol/Iss: 143 (2) Pages: 401-409 Date: 08/1993			
	201	Author: WEIDNER, N. et al. Title: Tumor Angiogenesis and Metastasis-Correlation in Invasive Breast Carcinoma Publ: New England Journal of Medicine Vol/Iss: 324 (1) Pages: 1-8 Date: 01/03/91			
	202	Author: WELSCH et al. Title: Staphylostatic Activity of Some New Diphenols, Naphthols, and Chalcones (Abstract only) Publ: Experientia Vol/Iss: 11 Pages: 350-351 Date: 1955			
	203	Author: WHEELER et al. Title: Mitotic Inhibition and Aneuploidy Induction by Naturally Occurring and Synthetic Estrogens in Chinese Hamster Cells in Vitro Publ: Mutation Research Vol/Iss: 171 Pages: 31-41 Date: 07/1986			
	204	Author: WHEELER et al. Title: Mitotic Inhibition and Chromosome Displacement Induced by Estradiol in Chinese Hamster Cells (Chemical Abstracts Doc. No: 105:54822, 1986) Publ: Cell Motility and the Cytoskeleton Vol/Iss: 7 (3) Pages: 235-247 Date: 1987			
SW	205	Author: WHITE et al. Title: Treatment of Pulmonary Hemangiomas with Recombinant Interferon Alfa-2a Publ: The New England Journal of Medicine Vol/Iss: 32 (18) Pages: 1197-1200 Date: 05/04/89			

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS						
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published				T ²
	206	Author: YASUDA et al. Title: Accelerated differentiation in seminiferous tubules of fetal mice prenatally exposed to ethinyl estradiol (Abstract only) Publ: Anat. Embryol. (Berl.) Vol/Iss: 174 (3) Pages: 289-299 Date: 1986				

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¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent document, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language translation is attached.